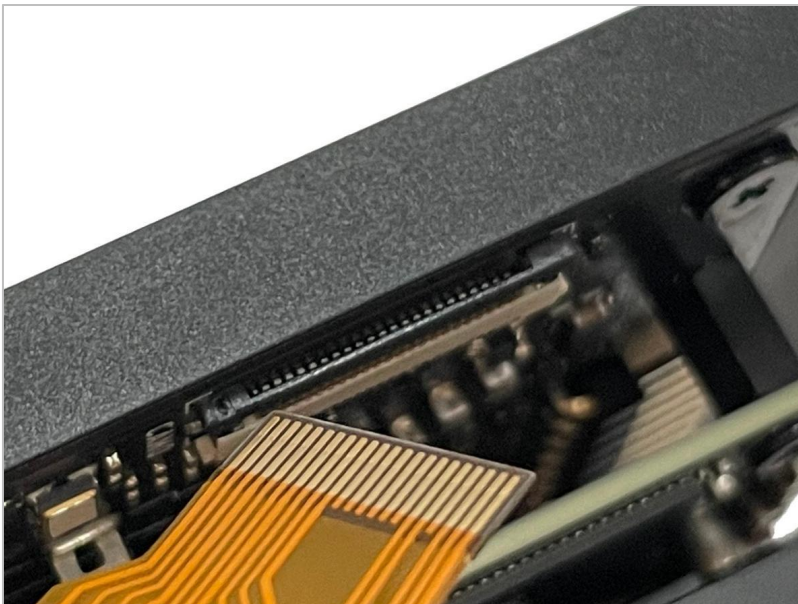
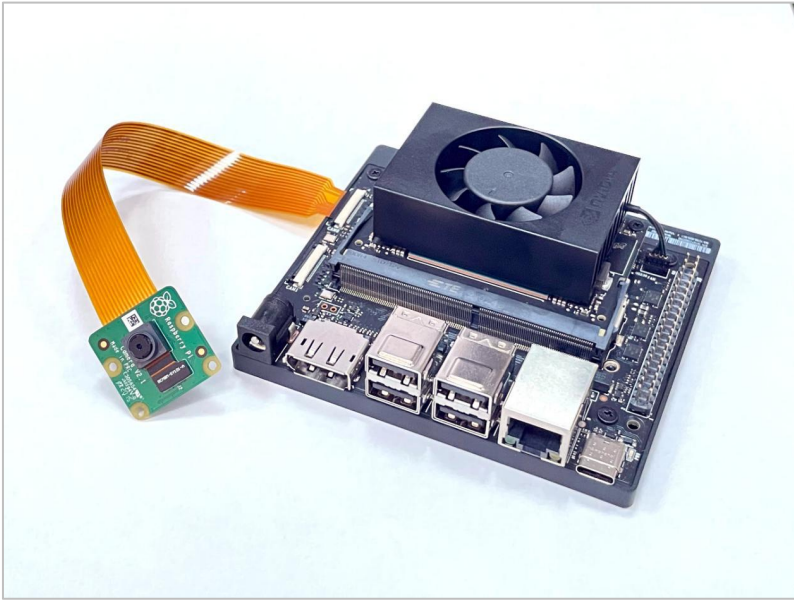


## 1.Connect camera

This tutorial is compatible with **Jetson ORIN NANO official kit** and **Jetson ORIN NANO SUB kit**. Before testing, use 15pin to 22pin, 0.5mm spacing cables to connect the motherboard and camera. The camera connection diagram is as follows.



The narrower side connects to the Jetson Orin NANO dev kit side, make sure the contacts are on the bottom.

## 2. Software check

Input following command to check if the camera device is found on the system.

```
$ sudo apt update; sudo apt-install -y v4l-utils
```

```
$ v4l2-ctl --list-devices
```

```
NVIDIA Tegra Video Input Device (platform:tegra-camrtc-ca):
```

```
    /dev/media0
```

```
vi-output, imx219 9-0010 (platform:tegra-capture-vi:1):  
/dev/video0
```

Run the following command to capture the video and check the re-encoded video file(output.mp4).

```
gst-launch-1.0 nvarguscamerasrc ! \  
    'video/x-raw(memory:NVMM), width=(int)1920, height=(int)1080, \  
    format=(string)NV12, framerate=(fraction)30/1' ! nvvidconv ! \  
    video/x-raw, format=I420 ! x264enc ! \  
    h264parse ! qtmux ! filesink \  
    location=output.mp4 -e
```